Kubernetes should scare you

in a good way

Sidhartha Mani
Founder and CEO
https://koki.io
Scare  sker/
verb  cause great **fear** or nervousness in; frighten.
Fear ˈfir/
noun  an unpleasant emotion caused by the belief that someone or something is likely to cause pain, or a threat.
Fear of the unknown

One fear to rule them all, one fear to find them, one fear to bring them all and in the black box bind them

https://doi.org/10.1016/j.janxdis.2016.03.011
Agenda

Kubernetes should scare you

- Past
- Present
- Future
- Role of Open Source
Kubernetes Past: Containers

- Storage
- Network
- Process

Hide Complexity
Start

Install

Stop

Upgrade
Containers move the concerns of operators up the stack
Cloud Revolution

Value

Technology

- H/W operations
- virtual machines (vm)
- vm orchestration
- IT Operations
- containers
- S/W operations

KOKI

bar graph showing the increase in value with technology from H/W operations to S/W operations, with virtual machines and vm orchestration in between.
Kubernetes Present: Orchestration

Tool for managing distributed software operations

- Collaboration
- Automation
- Integration
- Delivery
- Testing
- Monitoring
Start

Install

KOKI

Upgrade

Stop
Orchestration is a **stepping stone** in the container revolution.
Kubernetes Future

Moving up the stack
Orchestration sets the **foundation and the controls** to enable the movement up the stack
A new language to **hide the complexity** of IT operations
Provision
Heal

Instrument
Scale
Non-IT engineers will be able to automate IT operations
Respond to demand

Regulate & Comply

Recover from disaster

Self Provision & Manage
Business teams will provision, manage and reason about software without technical skills
Winning in the future

- Community
- Governance
- Innovation

Open Source
Kubernetes Community

Symbol of open source success
Open Source

A philosophy of *inclusivity, symbiotic growth*, along with *strong, consistent governance*. 
A philosophy of openness

- Code
- Documentation
- Process

Inclusivity, Growth, and Governance
Open Communities

Open, and accepting communities are *inviting, and self-fulfilling*
Acceptance breeds more acceptance
Kubernetes SIGs and WGs

Self-sufficient, self-initiated, self-managing groups
Openness and Governance

Sustainable Openness

- Open policy
- Open governance
- Open enforcement
Open Governance

Governance, management and leadership not exempt
Harassment in the Kubernetes Community

Openly enforced policy of “no tolerance of harassers”
Elections in the Kubernetes Community

Process, elections, and results are open to all
Culture of Openness

- Growth
- Inclusivity
- Governance

Sustainable Innovation
Ecosystem

Everyone is welcome to participate and grow together
Everyone

Taps the collective potential of the entire human race
Hyper Innovation

Innovation will not be directed, but self-initiated, and self-directed
Self-Initiated Innovation

17 year old. Invented prominent kubernetes setup tool
17 year old threat

Competitor of venture funded tech companies
17 year old collaborator

SIG chair in the Kubernetes community
Innovation as the new currency

via a Culture of Openness

- Contribution
- Openness
Contribution

Contributions follow openness
Openness

Innovation from all
Innovation from all Employees
Innovation from all

School kids from Africa
Innovation from all

Other roles in your organization
Innovation from all Small Startups
Innovation from all Big Enterprises
Governance in the new world

Process and Policy to enable Innovation from all
Welcome to the future!

Thank you for listening
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[Image of Koki logo]